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(54) Title: DIRECT COMPRESSIBLE TREHALOSE SOLIDS

(57) Abstract: The present invention relates to direct compressible crystalline or semi-crystalline trehalose solids having a crystal form selected from the group consisting of trehalose dihydrate and mixtures of trehalose dihydrate and anhydrous trehalose, and having a specific surface area of at least 0.25m²/g and products or tablets containing these. A process for preparing said solids comprises heating a solution of trehalose and applying shear and cooling. The trehalose solids can be applied in food, pharma and cosmetics and tablets prepared from said trehalose solids have improved tensile strength.